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1 Specialization tools and techniques for systematic optimization of system software

Dylan McNamee, Jonathan Walpole, Calton Pu, Crispin Cowan, Charles Krasic, Ashvin Goel, Perry Waglie, Charles Consel, Gilles Muller, Renaud Marlet
May 2001 *ACM Transactions on Computer Systems (TOCS)*, Volume 19 Issue 2
Publisher: ACM

Full text available: pdf(178.52 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 66, Citation Count: 14

Specialization has been recognized as a powerful technique for optimizing operating systems. However, specialization has not been broadly applied beyond the research community because current techniques based on manual specialization, are time-consuming ...

Keywords: operating system specialization, optimization, software architecture

2 Advanced Packet Data Testing with Linux

Wesley Erhart, Joseph Bell, Marc Hammons, Mark Mains
January 2000 *Linux Journal*, Volume 2000 Issue 69es
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(26.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 23, Citation Count: 0

At Nortel Networks, we have developed a Linux-based system for testing a second-generation packet radio service. During system development we explored the details of packet radio, the IP internals of the Linux oper

3 An Object-Oriented Software Architecture for 3D Mixed Reality Applications

Wayne Piekarski, Bruce H. Thomas
October 2003 *ISMAR '03: Proceedings of the 2nd IEEE/ACM International Symposium on Mixed and Augmented Reality*
Publisher: IEEE Computer Society

Full text available: pdf(1.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 6, Citation Count: 7

This paper presents a new software architecture for 3D mixed reality applications, named Timmirth-evo5. Currently there are a limited number of existing toolkits for the development of 3D mixed reality applications, each optimised for a particular feature ...

4 Component-based interchangeable cryptographic architecture for securing wireless connectivity in JavaTM applications

Johnny Li-Chang Lo, Judith Bishop



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- Cross-Categorical Special Educ



September 2003 SAI CSI T '03: Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  pdf(147,85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 73, Citation Count: 0

The development of Java based wireless applications presents challenges such as securing communication and authentication between mobile devices and a server. It is acknowledged that cryptography is commonly used to secure network communications and ...

Keywords: component, cryptography, general packet radio services, global system for mobile applications, mobile devices, protocols, separation of concerns, wireless application protocol, wireless transport layer security

5 Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories

Kimfong Lei, Phillip T. Rawles

October 2003 CI TC4 '03: Proceedings of the 4th conference on Information technology curriculum Publisher: ACM

Full text available:  pdf(407,50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Citation Count: 0

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

6 Mapping and displaying structural transformations between XML and PDF

Matthew R. B. Hardy, David F. Brailsford

November 2002 DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering Publisher: ACM

Full text available:  pdf(439,03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 91, Citation Count: 2

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after ...

Keywords: PDF, XML, document structure transformation

7 Experience with an evolving overlay network testbed

David G. Andersen, Hari Balakrishnan, M. Frans Kaashoek, Robert Morris

July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3

Publisher: ACM

Full text available:  pdf(115,26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 28, Citation Count: 2

The MIT RON testbed consists of 36 Internet-connected nodes at 31 different sites. It has been in operation for two years. This paper presents an overview of the testbed, summarizes some of the research for which it has proved useful, and presents the ...

8 MANTIS: system support for multimodal Networks of in-situ sensors

H. Abrach, S. Bhatti, J. Carlson, H. Dai, J. Rose, A. Sheth, B. Shucker, J. Deng, R. Han

-  September 2003 W SNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications
 Publisher: ACM
 Full text available: [pdf\(424.53 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms
 Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 117, Citation Count: 16
 The MANTIS Multimodal system for Networks of In-situ wireless Sensors provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping ...
Keywords: GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems, wireless sensor networks

-  9 Performance debugging for distributed systems of black boxes
 Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha Muthitacharoen
 October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles
 Publisher: ACM
 Full text available: [pdf\(408.85 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms
 Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 292, Citation Count: 40
 Many interesting large-scale systems are distributed systems of multiple communicating components. Such systems can be very hard to debug, especially when they exhibit poor performance. The problem becomes much harder when systems are composed of "black-box" ...
Keywords: black box systems, distributed systems, performance analysis, performance debugging

-  10 Multiresolution streaming mesh with shape preserving and QoS-like controlling
 Bing-Yu Chen, Tomoyuki Nishita
 February 2002 Web3D '02: Proceedings of the seventh international conference on 3D Web technology
 Publisher: ACM
 Full text available: [pdf\(480.09 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms, review
 Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 19, Citation Count: 4
 How to transmit 3D meshes efficiently has become an important topic on Web3D platform, since there are more and more people need to use 3D models on the Internet. The data size of a geometric 3D model is usually large for being able to represent more ...
Keywords: geometric quality of service, level of detail, mesh simplification, streaming mesh

-  11 Proxy compilation of dynamically loaded Java classes with MoJo
 Matt Newsome, Des Watson
 June 2002 LCTES/ SCOPES '02: Proceedings of the joint conference on Languages, compilers and tools for embedded systems: software and compilers for embedded systems
 Publisher: ACM
 Full text available: [pdf\(358.62 KB\)](#) Additional Information: full citation, abstract, references, index terms
 Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 0
 Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java offer dramatic increases in efficiency, but have poor support for ...
Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hotspot, just-in-time, native compilation, proxy compilation, remote compilation

12 Cost profile of a highly assured, secure operating system

Richard E. Smith

February 2001 ACM Transactions on Information and System Security (TISSEC). Volume 4 Issue 1

Publisher: ACM

Full text available:  pdf(165.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 96, Citation Count: 3

The Logical Coprocessing Kernel (LOCK) began as a research project to stretch the state of the art in secure computing by trying to meet or even exceed the "A1" requirements of the Trusted Computer System Evaluation Criteria (TCSEC). Over ...

Keywords: LOCK (Logical Coprocessing Kernel), security kernels

13 Proxy compilation of dynamically loaded Java classes with MoJo

Matt Newsome, Des Watson

July 2002 ACM SIGPLAN Notices. Volume 37 Issue 7

Publisher: ACM

Full text available:  pdf(258.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 0

Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java offer dramatic increases in efficiency, but have poor support for ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hotspot, just-in-time, native compilation, proxy compilation, remote compilation

14 Social weight: designing to minimise the social consequences arising from technology use by the mobile professional

Aaron Toney, Barrie Mulley, Bruce H. Thomas, Wayne Piekarski

October 2003 Personal and Ubiquitous Computing. Volume 7 Issue 5

Publisher: Springer-Verlag

Full text available:  pdf(431.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 3

This paper defines the concept of social weight as a design consideration and presents the e-SUIT, a social weight research platform incorporated covertly within a traditional business suit. The e-SUIT allows its user to strike a balance between a given ...

Keywords: Mobile professional, Social weight, Wearable

15 An Implementation of the SSF Scalable Simulation Framework on the Cray MTA

Robert R. Henry, Simon H. Kahan, Jason Liu, David M. Nicol

June 2003 PADS '03: Proceedings of the seventeenth workshop on Parallel and distributed simulation

Publisher: IEEE Computer Society

Full text available:  pdf(164.29 KB)  Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 16, Citation Count: 0

Large-scale parallel discrete event simulations of massive networks, such as the Internet, are "Grand Challenge" problems: packet level simulation of even a small fraction of the Internet would consume the resources of the most powerful computers available. ...

16 GCspy: an adaptable heap visualisation framework

-  Tony Printezis, Richard Jones
 November 2002 ACM SIGPLAN Notices. Volume 37 Issue 11
 Publisher: ACM
 Full text available: [pdf\(215.66 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 30, Citation Count: 4
 GCspy is an architectural framework for the collection, transmission, storage and replay of memory management behaviour. It makes new contributions to the understanding of the dynamic memory behaviour of programming languages (and especially object-oriented ...) ...
Keywords: Java, garbage collection, language implementation, memory management, visualisation of objects

- 17 Linux in Education: Linux at the University**
 Kevin K. Gifford
 September 2000 Linux Journal, Volume 2000 Issue 77es
 Publisher: Specialized Systems Consultants, Inc.
 Full text available: [html\(33.25 KB\)](#) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Citation Count: 0
 In outer space, on the ground, and in the classroom: an overview of several exciting real-world applications developed under Linuxstudents and researchers at the University of Colorado in Boulder.

- 18 Fast detection of communication patterns in distributed executions**
 Thomas Kunz, Michiel F. H. Seuren
 November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research
 Publisher: IBM Press
 Full text available: [pdf\(4.21 MB\)](#) Additional Information: full citation, abstract, references, index terms
Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 798, Citation Count: 0
 Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

- 19 Computing and network performance of a distributed parallel processing environment using MPI and PVM communication methods**
 Dennis Guster, Abdullah Al-Hamamah, Paul Safonov, Elizabeth Bachman
 April 2003 Journal of Computing Sciences in Colleges, Volume 18 Issue 4
 Publisher: Consortium for Computing Sciences in Colleges
 Full text available: [pdf\(37.88 KB\)](#) Additional Information: full citation, references, index terms
Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Citation Count: 0

- 20 Wireless sensor networks for habitat monitoring**
 Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson
 September 2002 WSN '02: Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications
 Publisher: ACM
 Full text available: [pdf\(542.04 KB\)](#) Additional Information: full citation, abstract, references, cited by, index terms
Bibliometrics: Downloads (6 Weeks): 117, Downloads (12 Months): 1054, Citation Count: 162
 We provide an in-depth study of applying wireless sensor networks to real-world habitat

monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

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